SEQUENCE LISTING

<110> Yu, Xuanchuan
Miranda, Maricar
Friddle, Carl Johan

<120> Novel Human Proteases and
Polynucleotides Encoding the Same

<130> LEX-0280-USA

<150> US 60/255,567
<151> 2000-12-14

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 1509
<212> DNA
<213> Homo sapiens

<400> 1
atggctcagc ggtgcgtttg cgtgctggcc ctggtggcta tgctgctcct agttttccct 60
accgtctcca gatcgatggg cccgaggagc ggggagcatc aaagggcgtc gcgaatccct 120
tctcagttca gcaaagagga acgcgtcgcg atgaaagagg cgctgaaagg tgccatccag 180
attccaacag tgacttttag ctctgagaag tccaatacta cagccctggc tgagttcgga 240
aaatacattc ataaagtctt tcctacagtg gtcagcacca gctttatcca gcatgaagtc 300
gtggaagagt atagccacct gttcactatc caaggctcgg accccagctt gcagccctac 360
ctgctgatgg ctcactttga tgtggtgcct gcccctgaag aaggctggga ggtgccccca 420
ttctctgggt tggagcgtga tggcgtcatc tatggtcggg gcacactgga cgacaagaac 480
tctgtgatgg cattactgca ggccttggag ctcctgctga tcaggaagta catcccccga 540
agatctttct tcatttctct gggccatgat gaggagtcat cagggacagg ggctcagagg 600
atctcagccc tgctacagtc aaggggcgtc cagctagcct tcattgtgga cgaggggggc 660
ttcatcttgg atgatttcat tcctaacttc aagaagccca tcgccttgat tgcagtctca 720
gagaagggtt ccatgaacct catgctgcaa gtaaacatga cttcaggcca ctcttcagct 780
cctccaaagg agacaagcat tggcatcctt gcagctgctg tcagccgatt ggagcagaca 840
ccaatgccta tcatatttgg aagcgggaca gtggtgactg tattgcagca actggcaaat 900
gagtttccct tccctgtcaa tataatcctg agcaacccat ggctatttga accacttata 960
agcaggttta tggagagaaa tcccttaacc aatgcaataa tcaggaccac cacggcactc 1020
accatattca aagcaggggt caagttcaat gtcatccccc cagtggccca ggccacagtc 1080
aacttccgga ttcaccctgg acagacagtc caagaggtcc tagaactcac gaagaacatt 1140
gtggctgata acagagtcca gttccatgtg ttgagtgcct ttgacccccc ccccgtcagc 1200
ccttctgatg acaaggcctt gggctaccag ctgctccgcc agaccgtaca gtccgtcttc 1260
ccggaagtca atattactgc cccagttact tctattggca acacagacag ccgattcttt 1320
acaaacctca ccactggcat ctacaggttc taccccatct acatacagcc tgaagacttc 1380
aaacgcatcc atggagtcaa cgagaaaatc tcagtccaag cctatgagac ccaagtgaaa 1440
ttcatctttg agttgattca gaatgctgac acagaccagg agccagtttc tcacctgcac 1500
aaactgtga 1509

<210> 2
<211> 502
<212> PRT
<213> Homo sapiens

<400> 2

```
Met Ala Gln Arg Cys Val Cys Val Leu Ala Leu Val Ala Met Leu Leu
 1               5                  10                  15
Leu Val Phe Pro Thr Val Ser Arg Ser Met Gly Pro Arg Ser Gly Glu
            20                  25                  30
His Gln Arg Ala Ser Arg Ile Pro Ser Gln Phe Ser Lys Glu Glu Arg
        35                  40                  45
Val Ala Met Lys Glu Ala Leu Lys Gly Ala Ile Gln Ile Pro Thr Val
    50                  55                  60
Thr Phe Ser Ser Glu Lys Ser Asn Thr Thr Ala Leu Ala Glu Phe Gly
65                  70                  75                  80
Lys Tyr Ile His Lys Val Phe Pro Thr Val Val Ser Thr Ser Phe Ile
                85                  90                  95
Gln His Glu Val Val Glu Glu Tyr Ser His Leu Phe Thr Ile Gln Gly
            100                 105                 110
Ser Asp Pro Ser Leu Gln Pro Tyr Leu Leu Met Ala His Phe Asp Val
        115                 120                 125
Val Pro Ala Pro Glu Glu Gly Trp Glu Val Pro Pro Phe Ser Gly Leu
    130                 135                 140
Glu Arg Asp Gly Val Ile Tyr Gly Arg Gly Thr Leu Asp Asp Lys Asn
145                 150                 155                 160
Ser Val Met Ala Leu Leu Gln Ala Leu Glu Leu Leu Leu Ile Arg Lys
                165                 170                 175
Tyr Ile Pro Arg Arg Ser Phe Phe Ile Ser Leu Gly His Asp Glu Glu
            180                 185                 190
Ser Ser Gly Thr Gly Ala Gln Arg Ile Ser Ala Leu Leu Gln Ser Arg
        195                 200                 205
Gly Val Gln Leu Ala Phe Ile Val Asp Glu Gly Gly Phe Ile Leu Asp
    210                 215                 220
Asp Phe Ile Pro Asn Phe Lys Lys Pro Ile Ala Leu Ile Ala Val Ser
225                 230                 235                 240
Glu Lys Gly Ser Met Asn Leu Met Leu Gln Val Asn Met Thr Ser Gly
                245                 250                 255
His Ser Ser Ala Pro Pro Lys Glu Thr Ser Ile Gly Ile Leu Ala Ala
            260                 265                 270
Ala Val Ser Arg Leu Glu Gln Thr Pro Met Pro Ile Ile Phe Gly Ser
        275                 280                 285
Gly Thr Val Val Thr Val Leu Gln Gln Leu Ala Asn Glu Phe Pro Phe
    290                 295                 300
Pro Val Asn Ile Ile Leu Ser Asn Pro Trp Leu Phe Glu Pro Leu Ile
305                 310                 315                 320
Ser Arg Phe Met Glu Arg Asn Pro Leu Thr Asn Ala Ile Ile Arg Thr
                325                 330                 335
Thr Thr Ala Leu Thr Ile Phe Lys Ala Gly Val Lys Phe Asn Val Ile
            340                 345                 350
Pro Pro Val Ala Gln Ala Thr Val Asn Phe Arg Ile His Pro Gly Gln
        355                 360                 365
Thr Val Gln Glu Val Leu Glu Leu Thr Lys Asn Ile Val Ala Asp Asn
    370                 375                 380
Arg Val Gln Phe His Val Leu Ser Ala Phe Asp Pro Leu Pro Val Ser
385                 390                 395                 400
Pro Ser Asp Asp Lys Ala Leu Gly Tyr Gln Leu Leu Arg Gln Thr Val
                405                 410                 415
Gln Ser Val Phe Pro Glu Val Asn Ile Thr Ala Pro Val Thr Ser Ile
            420                 425                 430
Gly Asn Thr Asp Ser Arg Phe Phe Thr Asn Leu Thr Thr Gly Ile Tyr
```

```
        435                 440                 445
Arg Phe Tyr Pro Ile Tyr Ile Gln Pro Glu Asp Phe Lys Arg Ile His
    450                 455                 460
Gly Val Asn Glu Lys Ile Ser Val Gln Ala Tyr Glu Thr Gln Val Lys
465                 470                 475                 480
Phe Ile Phe Glu Leu Ile Gln Asn Ala Asp Thr Asp Gln Glu Pro Val
                485                 490                 495
Ser His Leu His Lys Leu
            500
```

<210> 3
<211> 1086
<212> DNA
<213> Homo sapiens

<400> 3

```
atggctcagc ggtgcgtttg cgtgctggcc ctggtggcta tgctgctcct agttttccct      60
accgtctcca gatcgatggg cccgaggagc ggggagcatc aaagggcgtc gcgaatccct     120
tctcagttca gcaaagagga acgcgtcgcg atgaaagagg cgctgaaagg tgccatccag     180
attccaacag tgacttttag ctctgagaag tccaatacta cagccctggc tgagttcgga     240
aaatacattc ataaagtctt tcctacagtg gtcagcacca gctttatcca gcatgaagtc     300
gtggaagagt atagccacct gttcactatc caaggctcgg accccagctt gcagccctac     360
ctgctgatgg ctcactttga tgtggtgcct gcccctgaag aaggctggga ggtgccccca     420
ttctctgggt tggagcgtga tggcgtcatc tatggtcggg gcacactgga cgacaagaac     480
tctgtgatgg cattactgca ggccttggag ctcctgctga tcaggaagta catcccccga     540
agatctttct tcatttctct gggccatgat gaggagtcat cagggacagg ggctcagagg     600
atctcagccc tgctacagtc aaggggcgtc cagctagcct tcattgtgga cgaggggggc     660
ttcatcttgg atgatttcat tcctaacttc aagaagccca tcgccttgat tgcagtctca     720
gagaagggtt ccatgaacct catgctgcaa gtaaacatga cttcaggcca ctcttcagct     780
cctccaaagg agacaagcat tggcatcctt gcagctgctg tcagccgatt ggagcagaca     840
ccaatgccta tcatatttgg aagcgggaca gtggtgactg tattgcagca actggcaaat     900
gaggtttatg gagagaaatc ccttaaccaa tgcaataatc aggaccacca cggcactcac     960
catattcaaa gcaggggtca agttcaatgt catcccccca gtggcccagg ccacagtcaa    1020
cttccggatt caccctggac agacagtcca agaggtccta gaactcacga agaacattgt    1080
ggctga                                                               1086
```

<210> 4
<211> 361
<212> PRT
<213> Homo sapiens

<400> 4

```
Met Ala Gln Arg Cys Val Cys Val Leu Ala Leu Val Ala Met Leu Leu
 1               5                  10                  15
Leu Val Phe Pro Thr Val Ser Arg Ser Met Gly Pro Arg Ser Gly Glu
            20                  25                  30
His Gln Arg Ala Ser Arg Ile Pro Ser Gln Phe Ser Lys Glu Glu Arg
        35                  40                  45
Val Ala Met Lys Glu Ala Leu Lys Gly Ala Ile Gln Ile Pro Thr Val
    50                  55                  60
Thr Phe Ser Ser Glu Lys Ser Asn Thr Thr Ala Leu Ala Glu Phe Gly
65                  70                  75                  80
Lys Tyr Ile His Lys Val Phe Pro Thr Val Val Ser Thr Ser Phe Ile
                85                  90                  95
Gln His Glu Val Val Glu Glu Tyr Ser His Leu Phe Thr Ile Gln Gly
            100                 105                 110
```

```
Ser Asp Pro Ser Leu Gln Pro Tyr Leu Leu Met Ala His Phe Asp Val
        115                 120                 125
Val Pro Ala Pro Glu Glu Gly Trp Glu Val Pro Pro Phe Ser Gly Leu
    130                 135                 140
Glu Arg Asp Gly Val Ile Tyr Gly Arg Gly Thr Leu Asp Asp Lys Asn
145                 150                 155                 160
Ser Val Met Ala Leu Leu Gln Ala Leu Glu Leu Leu Leu Ile Arg Lys
                165                 170                 175
Tyr Ile Pro Arg Arg Ser Phe Phe Ile Ser Leu Gly His Asp Glu Glu
            180                 185                 190
Ser Ser Gly Thr Gly Ala Gln Arg Ile Ser Ala Leu Leu Gln Ser Arg
        195                 200                 205
Gly Val Gln Leu Ala Phe Ile Val Asp Glu Gly Gly Phe Ile Leu Asp
    210                 215                 220
Asp Phe Ile Pro Asn Phe Lys Lys Pro Ile Ala Leu Ile Ala Val Ser
225                 230                 235                 240
Glu Lys Gly Ser Met Asn Leu Met Leu Gln Val Asn Met Thr Ser Gly
                245                 250                 255
His Ser Ser Ala Pro Pro Lys Glu Thr Ser Ile Gly Ile Leu Ala Ala
            260                 265                 270
Ala Val Ser Arg Leu Glu Gln Thr Pro Met Pro Ile Ile Phe Gly Ser
        275                 280                 285
Gly Thr Val Val Thr Val Leu Gln Gln Leu Ala Asn Glu Val Tyr Gly
    290                 295                 300
Glu Lys Ser Leu Asn Gln Cys Asn Asn Gln Asp His His Gly Thr His
305                 310                 315                 320
His Ile Gln Ser Arg Gly Gln Val Gln Cys His Pro Pro Ser Gly Pro
                325                 330                 335
Gly His Ser Gln Leu Pro Asp Ser Pro Trp Thr Asp Ser Pro Arg Gly
            340                 345                 350
Pro Arg Thr His Glu Glu His Cys Gly
        355                 360
```